

APPENDIX I—SUMMARY STATISTICS OF DIFFICULTY AND DISCRIMINATION INDICES

Table I-1. 2007-08 NECAP Item Difficulty and Discrimination Indices by Grade, Subject, and Test Form.

Grade	Subject	Form	N Items	Difficulty		Discrimination	
				Mean	SD	Mean	SD
3	Math	00	55	0.69	0.16	0.43	0.08
		01	10	0.67	0.15	0.47	0.05
		02	10	0.66	0.11	0.45	0.06
		03	10	0.69	0.2	0.44	0.09
		04	10	0.71	0.14	0.48	0.05
		05	10	0.69	0.13	0.45	0.12
		06	10	0.67	0.15	0.43	0.07
		07	10	0.67	0.16	0.46	0.06
		08	10	0.66	0.11	0.46	0.05
	09	10	0.69	0.20	0.43	0.09	
	Reading	00	34	0.69	0.16	0.45	0.10
		01	17	0.66	0.17	0.46	0.10
		02	17	0.71	0.13	0.42	0.12
03		17	0.73	0.13	0.50	0.09	
4	Math	00	55	0.63	0.14	0.43	0.08
		01	10	0.63	0.18	0.48	0.10
		02	10	0.66	0.20	0.42	0.10
		03	10	0.68	0.24	0.38	0.12
		04	10	0.65	0.11	0.45	0.08
		05	10	0.65	0.20	0.44	0.05
		06	10	0.63	0.16	0.42	0.13
		07	10	0.64	0.18	0.47	0.09
		08	10	0.67	0.20	0.42	0.10
	09	10	0.68	0.25	0.37	0.14	
	Reading	00	34	0.72	0.14	0.43	0.07
		01	17	0.69	0.14	0.46	0.08
		02	17	0.69	0.13	0.42	0.09
03		17	0.63	0.14	0.42	0.07	
5	Math	00	48	0.54	0.18	0.40	0.12
		01	11	0.48	0.20	0.43	0.13
		02	11	0.55	0.15	0.43	0.08
		03	11	0.50	0.18	0.44	0.09
		04	11	0.54	0.17	0.45	0.12
		05	11	0.52	0.20	0.48	0.09
		06	11	0.50	0.17	0.45	0.09
		07	11	0.49	0.20	0.42	0.13
		08	11	0.55	0.15	0.42	0.08
	09	11	0.50	0.18	0.45	0.09	
	Reading	00	34	0.65	0.15	0.40	0.11
		01	17	0.64	0.13	0.46	0.10
		02	17	0.65	0.17	0.42	0.12
		03	17	0.65	0.15	0.40	0.14
	Writing	01	17	0.73	0.20	0.36	0.14

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Table I-1. 2007-08 NECAP Item Difficulty and Discrimination Indices by Grade, Subject, and Test Form.

Grade	Subject	Form	N Items	Difficulty		Discrimination	
				Mean	SD	Mean	SD
6	Math	00	11	0.51	0.14	0.48	0.10
		01	11	0.49	0.18	0.49	0.10
		02	11	0.46	0.12	0.49	0.13
		03	11	0.48	0.15	0.50	0.13
		04	11	0.51	0.19	0.45	0.13
		05	11	0.46	0.18	0.44	0.10
		06	11	0.52	0.14	0.47	0.09
		07	11	0.50	0.18	0.49	0.09
		08	11	0.48	0.12	0.49	0.13
	09	34	0.69	0.17	0.40	0.09	
	Reading	00	17	0.64	0.15	0.44	0.12
		01	17	0.72	0.16	0.46	0.12
		02	17	0.69	0.17	0.42	0.12
03		48	0.50	0.17	0.42	0.12	
7	Math	00	11	0.40	0.17	0.44	0.11
		01	11	0.54	0.20	0.41	0.14
		02	11	0.46	0.14	0.44	0.09
		03	11	0.46	0.23	0.43	0.17
		04	11	0.47	0.19	0.38	0.09
		05	11	0.44	0.12	0.43	0.12
		06	11	0.41	0.17	0.42	0.11
		07	11	0.54	0.20	0.41	0.14
		08	11	0.46	0.14	0.44	0.08
	09	34	0.69	0.14	0.42	0.12	
	Reading	00	17	0.69	0.17	0.43	0.11
		01	17	0.68	0.14	0.43	0.13
		02	17	0.73	0.14	0.44	0.11
03		48	0.47	0.17	0.43	0.13	

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Table I-1. 2007-08 NECAP Item Difficulty and Discrimination Indices by Grade, Subject, and Test Form.

Grade	Subject	Form	N Items	Difficulty		Discrimination	
				Mean	SD	Mean	SD
8	Math	00	11	0.47	0.15	0.46	0.09
		01	11	0.45	0.15	0.47	0.12
		02	11	0.42	0.18	0.40	0.15
		03	11	0.52	0.24	0.47	0.07
		04	11	0.54	0.15	0.47	0.13
		05	11	0.54	0.16	0.48	0.10
		06	11	0.49	0.16	0.45	0.10
		07	11	0.45	0.15	0.47	0.12
		08	11	0.42	0.19	0.39	0.14
	09	34	0.73	0.13	0.44	0.12	
	Reading	00	17	0.66	0.17	0.46	0.14
		01	17	0.73	0.15	0.42	0.14
		02	17	0.70	0.12	0.45	0.13
03		17	0.71	0.19	0.37	0.17	
Writing	01	11	0.51	0.14	0.48	0.10	
11	Math	00	46	0.36	0.18	0.42	0.13
		01	8	0.31	0.17	0.41	0.11
		02	8	0.29	0.22	0.44	0.12
		03	8	0.26	0.14	0.43	0.13
		04	8	0.34	0.20	0.40	0.21
		05	8	0.30	0.15	0.52	0.12
		06	8	0.27	0.16	0.39	0.16
		07	8	0.32	0.17	0.41	0.13
	08	8	0.29	0.22	0.43	0.12	
	Reading	00	34	0.66	0.15	0.42	0.13
		01	17	0.64	0.16	0.47	0.14
02		17	0.65	0.14	0.48	0.12	

Table I-2. 2007-08 NECAP Item Difficulty and Discrimination Index Means and Standard Deviations by Grade, Subject, and Item Type.

Grade	Subject	Statistic ¹	All ²	MC ²	OR ²
3	Math	Diff	0.68 (0.15)	0.72 (0.14)	0.63 (0.16)
		Disc	0.45 (0.08)	0.43 (0.07)	0.47 (0.08)
		N	145	89	56
	Reading	Diff	0.7 (0.15)	0.72 (0.13)	0.58 (0.19)
		Disc	0.45 (0.1)	0.43 (0.1)	0.56 (0.05)
		N	85	70	15
4	Math	Diff	0.65 (0.17)	0.68 (0.18)	0.59 (0.13)
		Disc	0.43 (0.1)	0.4 (0.09)	0.48 (0.09)
		N	145	89	56
	Reading	Diff	0.69 (0.14)	0.72 (0.12)	0.54 (0.15)
		Disc	0.43 (0.07)	0.42 (0.07)	0.49 (0.07)
		N	85	70	15
5	Math	Diff	0.52 (0.18)	0.59 (0.16)	0.43 (0.16)
		Disc	0.43 (0.11)	0.38 (0.08)	0.49 (0.11)
		N	147	86	61
	Reading	Diff	0.65 (0.15)	0.7 (0.11)	0.42 (0.03)
		Disc	0.42 (0.12)	0.37 (0.08)	0.61 (0.04)
		N	85	70	15
	Writing	Diff	0.73 (0.2)	0.76 (0.15)	0.68 (0.27)
		Disc	0.36 (0.14)	0.31 (0.07)	0.43 (0.18)
		N	17	10	7
6	Math	Diff	0.5 (0.16)	0.54 (0.15)	0.44 (0.16)
		Disc	0.46 (0.11)	0.41 (0.09)	0.54 (0.1)
		N	147	86	61
	Reading	Diff	0.69 (0.16)	0.75 (0.11)	0.42 (0.05)
		Disc	0.43 (0.11)	0.39 (0.08)	0.6 (0.05)
		N	85	70	15
7	Math	Diff	0.48 (0.17)	0.54 (0.17)	0.38 (0.13)
		Disc	0.42 (0.12)	0.36 (0.09)	0.51 (0.09)
		N	147	86	61
	Reading	Diff	0.69 (0.15)	0.74 (0.12)	0.49 (0.05)
		Disc	0.43 (0.12)	0.39 (0.08)	0.62 (0.03)
		N	85	70	15

¹Diff = Difficulty (p-value); Disc = Discrimination (point-biserial correlation); N = number of items

²All = MC and OR; MC = multiple-choice; OR = open response

Table I-2. 2007-08 NECAP Item Difficulty and Discrimination Index Means and Standard Deviations by Grade, Subject, and Item Type.

8	Math	Diff	0.47 (0.17)	0.53 (0.15)	0.4 (0.17)
		Disc	0.44 (0.12)	0.38 (0.09)	0.53 (0.1)
		N	147	86	61
	Reading	Diff	0.71 (0.14)	0.75 (0.12)	0.53 (0.03)
		Disc	0.44 (0.13)	0.39 (0.08)	0.67 (0.03)
		N	85	70	15
Writing	Diff	0.71 (0.19)	0.69 (0.17)	0.73 (0.24)	
	Disc	0.37 (0.17)	0.28 (0.08)	0.5 (0.2)	
	N	17	10	7	
11	Math	Diff	0.32 (0.17)	0.41 (0.13)	0.23 (0.16)
		Disc	0.42 (0.13)	0.34 (0.10)	0.51 (0.11)
		N	110	56	54
	Reading	Diff	0.65 (0.15)	0.7 (0.11)	0.43 (0.05)
		Disc	0.45 (0.13)	0.4 (0.09)	0.67 (0.02)
		N	68	56	12

¹Diff = Difficulty (p-value); Disc = Discrimination (point-biserial correlation); N = number of items

²All = MC and OR; MC = multiple-choice; OR = open response

Table I-3: 2007-08 NECAP Frequencies, Relative Percentages, and Cumulative Percentages of Difficulty and Discrimination Indices by Grade, Subject, and Index Range.

Grade	Subject	Range	Difficulty			Discrimination		
			N	%	Cum%	N	%	Cum%
3	Math	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	0	0.0	0.0	0	0.0	0.0
		0.20 - 0.29	10	1.6	1.6	24	3.8	3.8
		0.30 - 0.39	3	0.5	2.0	182	28.4	32.2
		0.40 - 0.49	91	14.2	16.3	294	45.9	78.1
		0.50 - 0.59	110	17.2	33.4	129	20.2	98.3
		0.60 - 0.69	30	4.7	38.1	11	1.7	100.0
		0.70 - 0.79	203	31.7	69.8	0	0.0	100.0
		0.80 - 0.89	182	28.4	98.3	0	0.0	100.0
		0.90 - 0.99	11	1.7	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		
3	Reading	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	0	0.0	0.0	0	0.0	0.0
		0.20 - 0.29	0	0.0	0.0	13	3.3	3.3
		0.30 - 0.39	22	5.6	5.6	111	28.4	31.7
		0.40 - 0.49	33	8.4	14.1	82	21.0	52.7
		0.50 - 0.59	58	14.8	28.9	172	44.0	96.7
		0.60 - 0.69	59	15.1	44.0	13	3.3	100.0
		0.70 - 0.79	74	18.9	62.9	0	0.0	100.0
		0.80 - 0.89	133	34.0	96.9	0	0.0	100.0
		0.90 - 0.99	12	3.1	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		

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Table I-3: 2007-08 NECAP Frequencies, Relative Percentages, and Cumulative Percentages of Difficulty and Discrimination Indices by Grade, Subject, and Index Range.

Grade	Subject	Range	Difficulty			Discrimination		
			N	%	Cum%	N	%	Cum%
4	Math	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	1	0.2	0.2
		0.10 - 0.19	2	0.3	0.3	1	0.2	0.3
		0.20 - 0.29	3	0.5	0.8	49	7.7	8.0
		0.30 - 0.39	46	7.2	8.0	151	23.6	31.6
		0.40 - 0.49	55	8.6	16.6	293	45.8	77.3
		0.50 - 0.59	169	26.4	43.0	140	21.9	99.2
		0.60 - 0.69	107	16.7	59.7	5	0.8	100.0
		0.70 - 0.79	161	25.2	84.8	0	0.0	100.0
		0.80 - 0.89	95	14.8	99.7	0	0.0	100.0
		0.90 - 0.99	2	0.3	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		
4	Reading	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	0	0.0	0.0	13	3.3	3.3
		0.20 - 0.29	0	0.0	0.0	90	23.0	26.3
		0.30 - 0.39	11	2.8	2.8	230	58.8	85.2
		0.40 - 0.49	25	6.4	9.2	57	14.6	99.7
		0.50 - 0.59	47	12.0	21.2	1	0.3	100.0
		0.60 - 0.69	74	18.9	40.2	0	0.0	100.0
		0.70 - 0.79	112	28.6	68.8	0	0.0	100.0
		0.80 - 0.89	100	25.6	94.4	0	0.0	100.0
		0.90 - 0.99	22	5.6	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	0.0		

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Table I-3: 2007-08 NECAP Frequencies, Relative Percentages, and Cumulative Percentages of Difficulty and Discrimination Indices by Grade, Subject, and Index Range.

Grade	Subject	Range	Difficulty			Discrimination		
			N	%	Cum%	N	%	Cum%
5	Math	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	2	0.3	0.3	2	0.3	0.3
		0.20 - 0.29	73	12.6	13.0	83	14.3	14.7
		0.30 - 0.39	61	10.5	23.5	185	32.0	46.6
		0.40 - 0.49	112	19.3	42.8	171	29.5	76.2
		0.50 - 0.59	128	22.1	64.9	81	14.0	90.2
		0.60 - 0.69	57	9.8	74.8	57	9.8	100.0
		0.70 - 0.79	110	19.0	93.8	0	0.0	100.0
		0.80 - 0.89	36	6.2	100.0	0	0.0	100.0
		0.90 - 0.99	0	0.0	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		
5	Reading	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	0	0.0	0.0	11	2.8	2.8
		0.20 - 0.29	0	0.0	0.0	66	16.9	19.7
		0.30 - 0.39	11	2.8	2.8	136	34.8	54.5
		0.40 - 0.49	61	15.6	18.4	107	27.4	81.8
		0.50 - 0.59	75	19.2	37.6	44	11.3	93.1
		0.60 - 0.69	72	18.4	56.0	27	6.9	100.0
		0.70 - 0.79	73	18.7	74.7	0	0.0	100.0
		0.80 - 0.89	98	25.1	99.7	0	0.0	100.0
		0.90 - 0.99	1	0.3	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		
5	Writing	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	0	0.0	0.0	1	5.9	5.9
		0.20 - 0.29	0	0.0	0.0	5	29.4	35.3
		0.30 - 0.39	0	0.0	0.0	7	41.2	76.5
		0.40 - 0.49	4	23.5	23.5	0	0.0	76.5
		0.50 - 0.59	2	11.8	35.3	3	17.6	94.1
		0.60 - 0.69	0	0.0	35.3	1	5.9	100.0
		0.70 - 0.79	1	5.9	41.2	0	0.0	100.0
		0.80 - 0.89	6	35.3	76.5	0	0.0	100.0
		0.90 - 0.99	4	23.5	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		

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Table I-3: 2007-08 NECAP Frequencies, Relative Percentages, and Cumulative Percentages of Difficulty and Discrimination Indices by Grade, Subject, and Index Range.

Grade	Subject	Range	Difficulty			Discrimination		
			N	%	Cum%	N	%	Cum%
6	Math	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	14	2.4	2.4	0	0.0	0.0
		0.20 - 0.29	58	10.0	12.4	58	10.0	10.0
		0.30 - 0.39	65	11.2	23.7	154	26.6	36.6
		0.40 - 0.49	105	18.1	41.8	173	29.9	66.5
		0.50 - 0.59	151	26.1	67.9	122	21.1	87.6
		0.60 - 0.69	77	13.3	81.2	61	10.5	98.1
		0.70 - 0.79	99	17.1	98.3	11	1.9	100.0
		0.80 - 0.89	10	1.7	100.0	0	0.0	100.0
		0.90 - 0.99	0	0.0	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		
6	Reading	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	0	0.0	0.0	2	0.5	0.5
		0.20 - 0.29	0	0.0	0.0	33	8.4	9.0
		0.30 - 0.39	33	8.4	8.4	172	44.0	52.9
		0.40 - 0.49	35	9.0	17.4	112	28.6	81.6
		0.50 - 0.59	25	6.4	23.8	54	13.8	95.4
		0.60 - 0.69	72	18.4	42.2	18	4.6	100.0
		0.70 - 0.79	82	21.0	63.2	0	0.0	100.0
		0.80 - 0.89	120	30.7	93.9	0	0.0	100.0
		0.90 - 0.99	24	6.1	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		

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Table I-3: 2007-08 NECAP Frequencies, Relative Percentages, and Cumulative Percentages of Difficulty and Discrimination Indices by Grade, Subject, and Index Range.

Grade	Subject	Range	Difficulty			Discrimination		
			N	%	Cum%	N	%	Cum%
7	Math	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	0	0.0	0.0	10	1.7	1.7
		0.20 - 0.29	102	17.6	17.6	86	14.9	16.6
		0.30 - 0.39	86	14.9	32.5	92	15.9	32.5
		0.40 - 0.49	109	18.8	51.3	258	44.6	77.0
		0.50 - 0.59	113	19.5	70.8	95	16.4	93.4
		0.60 - 0.69	77	13.3	84.1	37	6.4	99.8
		0.70 - 0.79	66	11.4	95.5	1	0.2	100.0
		0.80 - 0.89	26	4.5	100.0	0	0.0	100.0
		0.90 - 0.99	0	0.0	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		
7	Reading	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	0	0.0	0.0	1	0.3	0.3
		0.20 - 0.29	0	0.0	0.0	55	14.1	14.3
		0.30 - 0.39	0	0.0	0.0	102	26.1	40.4
		0.40 - 0.49	58	14.8	14.8	160	40.9	81.3
		0.50 - 0.59	37	9.5	24.3	15	3.8	85.2
		0.60 - 0.69	76	19.4	43.7	58	14.8	100.0
		0.70 - 0.79	103	26.3	70.1	0	0.0	100.0
		0.80 - 0.89	114	29.2	99.2	0	0.0	100.0
		0.90 - 0.99	3	0.8	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		

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Table I-3: 2007-08 NECAP Frequencies, Relative Percentages, and Cumulative Percentages of Difficulty and Discrimination Indices by Grade, Subject, and Index Range.

Grade	Subject	Range	Difficulty			Discrimination		
			N	%	Cum%	N	%	Cum%
8	Math	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	23	4.0	4.0	10	1.7	1.7
		0.20 - 0.29	74	12.8	16.8	73	12.6	14.3
		0.30 - 0.39	109	18.8	35.6	158	27.3	41.6
		0.40 - 0.49	118	20.4	56.0	139	24.0	65.6
		0.50 - 0.59	91	15.7	71.7	109	18.8	84.5
		0.60 - 0.69	121	20.9	92.6	90	15.5	100.0
		0.70 - 0.79	28	4.8	97.4	0	0.0	100.0
		0.80 - 0.89	15	2.6	100.0	0	0.0	100.0
		0.90 - 0.99	0	0.0	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		
8	Reading	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	0	0.0	0.0	1	0.3	0.3
		0.20 - 0.29	0	0.0	0.0	12	3.1	3.3
		0.30 - 0.39	1	0.3	0.3	159	40.7	44.0
		0.40 - 0.49	15	3.8	4.1	116	29.7	73.7
		0.50 - 0.59	67	17.1	21.2	34	8.7	82.4
		0.60 - 0.69	69	17.6	38.9	56	14.3	96.7
		0.70 - 0.79	82	21.0	59.8	13	3.3	100.0
		0.80 - 0.89	126	32.2	92.1	0	0.0	100.0
		0.90 - 0.99	31	7.9	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		
8	Writing	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	0	0.0	0.0	1	5.9	5.9
		0.20 - 0.29	0	0.0	0.0	5	29.4	35.3
		0.30 - 0.39	0	0.0	0.0	7	41.2	76.5
		0.40 - 0.49	3	17.6	17.6	0	0.0	76.5
		0.50 - 0.59	4	23.5	41.2	0	0.0	76.5
		0.60 - 0.69	1	5.9	47.1	4	23.5	100.0
		0.70 - 0.79	2	11.8	58.8	0	0.0	100.0
		0.80 - 0.89	4	23.5	82.4	0	0.0	100.0
		0.90 - 0.99	3	17.6	100.0	0	0.0	100.0
>= 1.00	0	0.0	100.0	0	0.0	100.0		

Difficulty = p-value; Discrimination = point-biserial correlation

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Table I-3. 2007-08 NECAP Frequencies, Relative Percentages, and Cumulative Percentages of Difficulty and Discrimination Indices by Grade, Subject, and Index Range.

Grade	Subject	Range	Difficulty			Discrimination		
			N	%	Cum%	N	%	Cum%
11	Math	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	34	7.1	7.1	9	1.9	1.9
		0.10 - 0.19	68	14.2	21.3	22	4.6	6.5
		0.20 - 0.29	93	19.5	40.8	31	6.5	13.0
		0.30 - 0.39	90	18.8	59.6	138	28.9	41.8
		0.40 - 0.49	105	22.0	81.6	169	35.4	77.2
		0.50 - 0.59	40	8.4	90.0	66	13.8	91.0
		0.60 - 0.69	36	7.5	97.5	32	6.7	97.7
		0.70 - 0.79	12	2.5	100.0	11	2.3	100.0
		0.80 - 0.89	0	0.0	100.0	0	0.0	100.0
		0.90 - 0.99	0	0.0	100.0	0	0.0	100.0
		>= 1.00	0	0.0	100.0	0	0.0	100.0
11	Reading	< -0.30	0	0.0	0.0	0	0.0	0.0
		-0.30 - -0.21	0	0.0	0.0	0	0.0	0.0
		-0.20 - -0.11	0	0.0	0.0	0	0.0	0.0
		-0.10 - -0.01	0	0.0	0.0	0	0.0	0.0
		0.00 - 0.09	0	0.0	0.0	0	0.0	0.0
		0.10 - 0.19	0	0.0	0.0	9	2.6	2.6
		0.20 - 0.29	0	0.0	0.0	28	8.2	10.9
		0.30 - 0.39	29	8.5	8.5	114	33.5	44.4
		0.40 - 0.49	31	9.1	17.6	113	33.2	77.6
		0.50 - 0.59	21	6.2	23.8	16	4.7	82.4
		0.60 - 0.69	101	29.7	53.5	58	17.1	99.4
		0.70 - 0.79	71	20.9	74.4	2	0.6	100.0
		0.80 - 0.89	87	25.6	100.0	0	0.0	100.0
		0.90 - 0.99	0	0.0	100.0	0	0.0	100.0
		>= 1.00	0	0.0	100.0	0	0.0	100.0

Difficulty = p-value; Discrimination = point-biserial correlation